

## Recombinant Human DBI, His-tagged

Cat. No. DBI-11842H    Lot. No. (See product label)

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Recombinant Human DBI protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.  |
| <b>Species</b>          | Human   |
| <b>Source</b>           | E.coli  |
| <b>ProteinLength</b>    | 1-102a.a.   |
| <b>Description</b>      | <p>This gene encodes diazepam binding inhibitor, a protein that is regulated by hormones and is involved in lipid metabolism and the displacement of beta-carbolines and benzodiazepines, which modulate signal transduction at type A gamma-aminobutyric acid receptors located in brain synapses. The protein is conserved from yeast to mammals, with the most highly conserved domain consisting of seven contiguous residues that constitute the hydrophobic binding site for medium- and long-chain acyl-Coenzyme A esters. Diazepam binding inhibitor is also known to mediate the feedback regulation of pancreatic secretion and the postprandial release of cholecystokinin, in addition to its role as a mediator in corticotropin-dependent adrenal steroidogenesis. Three pseudogenes located on chromosomes 6, 8 and 16 have been identified. Multiple transcript variants encoding different isoforms have been described for this gene.</p> |
| <b>Source</b>           | E.coli  |
| <b>Species</b>          | Human   |

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|-------------------------|--|
| <b>Tag</b>              | His  |
| <b>Storage</b>          | The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.  |
| <b>Storage Buffer</b>   | 1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.  |
| <b>GENE INFORMATION</b> |  |
| <b>Gene Name</b>        | DBI diazepam binding inhibitor (GABA receptor modulator, acyl-CoA binding protein) [ Homo sapiens ]  |
| <b>Official Symbol</b>  | DBI  |
| <b>Synonyms</b>         | DBI; diazepam binding inhibitor (GABA receptor modulator, acyl-CoA binding protein); diazepam binding inhibitor (GABA receptor modulator, acyl Coenzyme A binding protein); acyl-CoA-binding protein; ACBD1; ACBP; endozepine; GABA receptor modulator; diazepam-binding inhibitor; acyl coenzyme A binding protein; acyl-Coenzyme A binding domain containing 1; cholecystokinin-releasing peptide, trypsin-sensitive; diazepam binding inhibitor (GABA receptor modulator, acyl-Coenzyme A binding protein); EP; CCK-RP; MGC70414; |
| <b>Gene ID</b>          | 1622   |
| <b>mRNA Refseq</b>      | NM_001079862   |
| <b>Protein Refseq</b>   | NP_001073331   |
| <b>MIM</b>              | 125950   |

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| <b>UniProt ID</b>          | P07108  |
| <b>Chromosome Location</b> | 2q12-q21  |
| <b>Pathway</b>             | PPAR signaling pathway, organism-specific biosystem; PPAR signaling pathway, conserved biosystem; |
| <b>Function</b>            | benzodiazepine receptor binding; fatty-acyl-CoA binding; lipid binding;                           |

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